Appln. No. To Be Assigned PreAmendment Dated:

iii) detecting MR signals from the sample and utilising spectral-spatial excitation, in combination with line scanning, point scanning and/or steady state imaging techniques; and

iv) optionally generating an image, physiological data or metabolic data from the detected signals.

Brief Description of the Drawings

Figure 1 is an example of a pulse sequence used in the first aspect of the present invention (according to claim 1);

Figure 2 is an outline of LS pulse sequence;

Figure 3 is an outline of a PS pulse sequence;

Figures 4 and 5 illustrate how a 16 x 16 matrix (black grid) may be placed to collect the ¹H-spectrum from ROI's (white ellipses);

Figures 6A-B show phantom objects in the PS method;

Figures 7A-C show the results from simulations using both LS and GE sequences;

Figures 8A-C show the results from simulations using both PS and CSI sequences; and

Figures 9a-d show the results of simulations of experiments with hyperpolarised agents.

Detailed Description of the Preferred Embodiments of the Invention—

Please delete the contents of page 17.